Aastra 9112i How To

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Foreword

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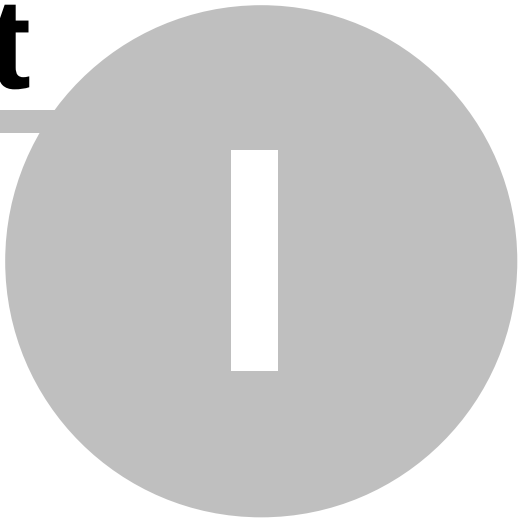
Part



1 Introduction

Aastra 9112i

How to use Aastra 9112i with PBXware

This "How to" is written as general guide on how to use Aastra 9112i with PBXware using 1.3.1.1095 SIP Aastra 9112i firmware. It covers the most common tasks that are required to have your Aastra 9112i working efficiently.

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Part II

2 Registering Aastra 9112i

- Requirements
- Manual Configuration
- Auto Provisioning
- Auto Configuration

2.1 Requirements

1. Aastra 9112i firmware.

- Make sure that the device is loaded with 1.3.1.1095 SIP firmware.

2. DHCP server.

- Fully configured and operational DHCP server.

2.2 Manual Configuration

- UAD Settings
- Creating Extension
- Registering Phone

2.2.1 UAD Settings

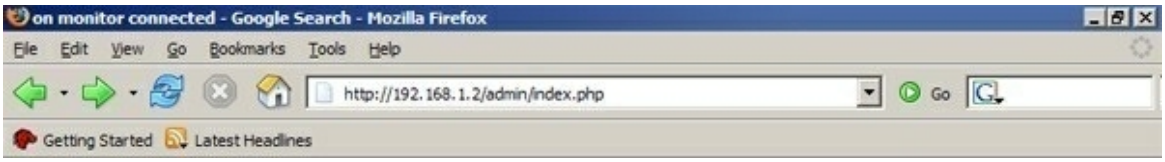
STEP ONE: PBXware IP address.

1. Find out the IP address of the PBXware server.

STEP TWO: Login to PBXware.

1. Open a new browser window and enter the IP address followed by "/admin/index.php" in order to access the PBXware administration interface login screen.

Example: http://192.168.1.2/admin/index.php



an example with IP address following by "/admin/index.php"

2. Hit "Enter" on your keyboard.

3. Login into PBXware with your e-mail address and password.

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STEP THREE: UAD status.

1. Make sure the UAD is enabled. To check the UAD status navigate to "Settings:UAD", and click on the "edit" icon corresponding to "Aastra 9112i".

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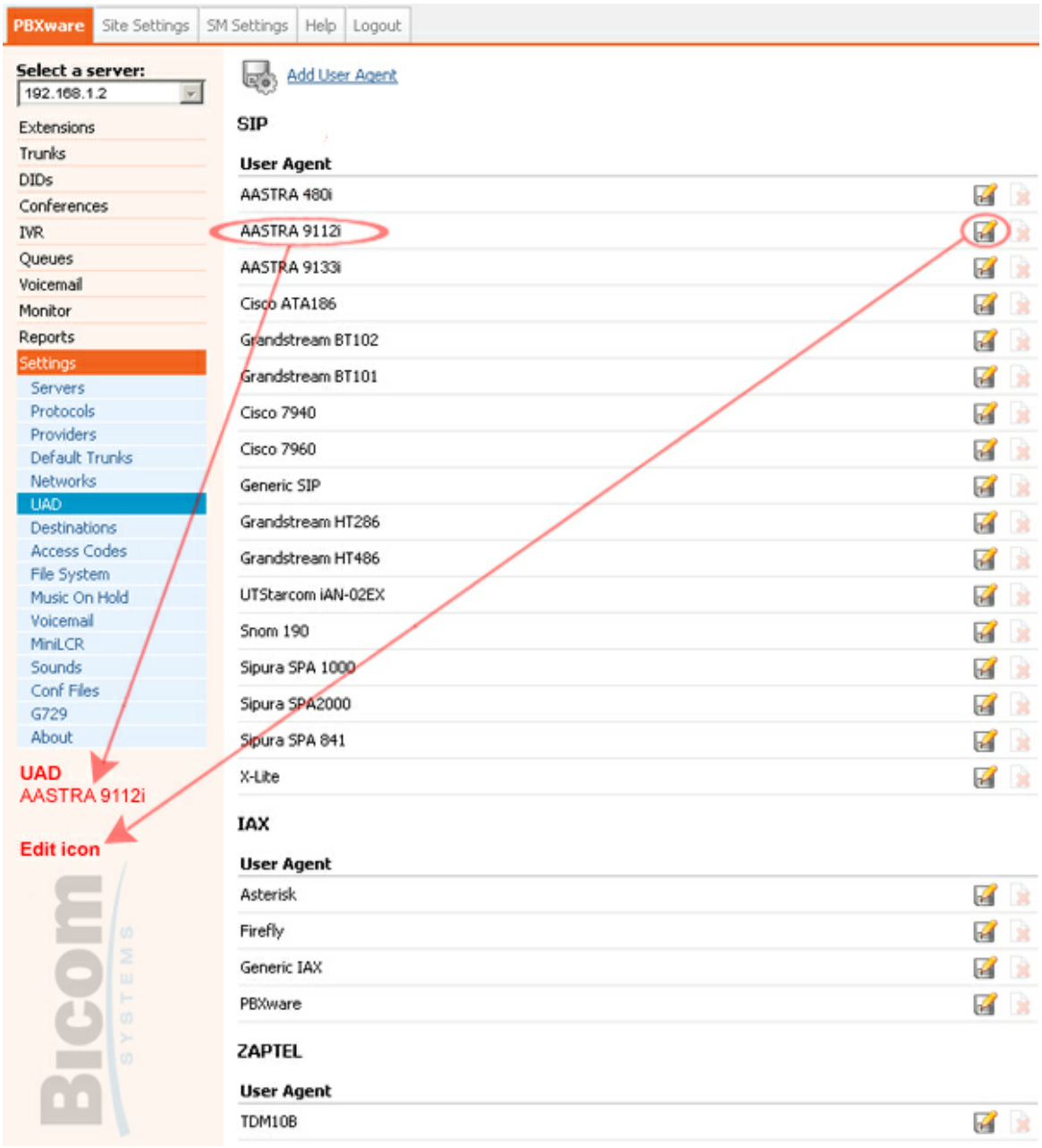

2. Make sure "Status" is set to "active", "Auto provisioning" is set to "No" and "DHCP" is set to "Yes".

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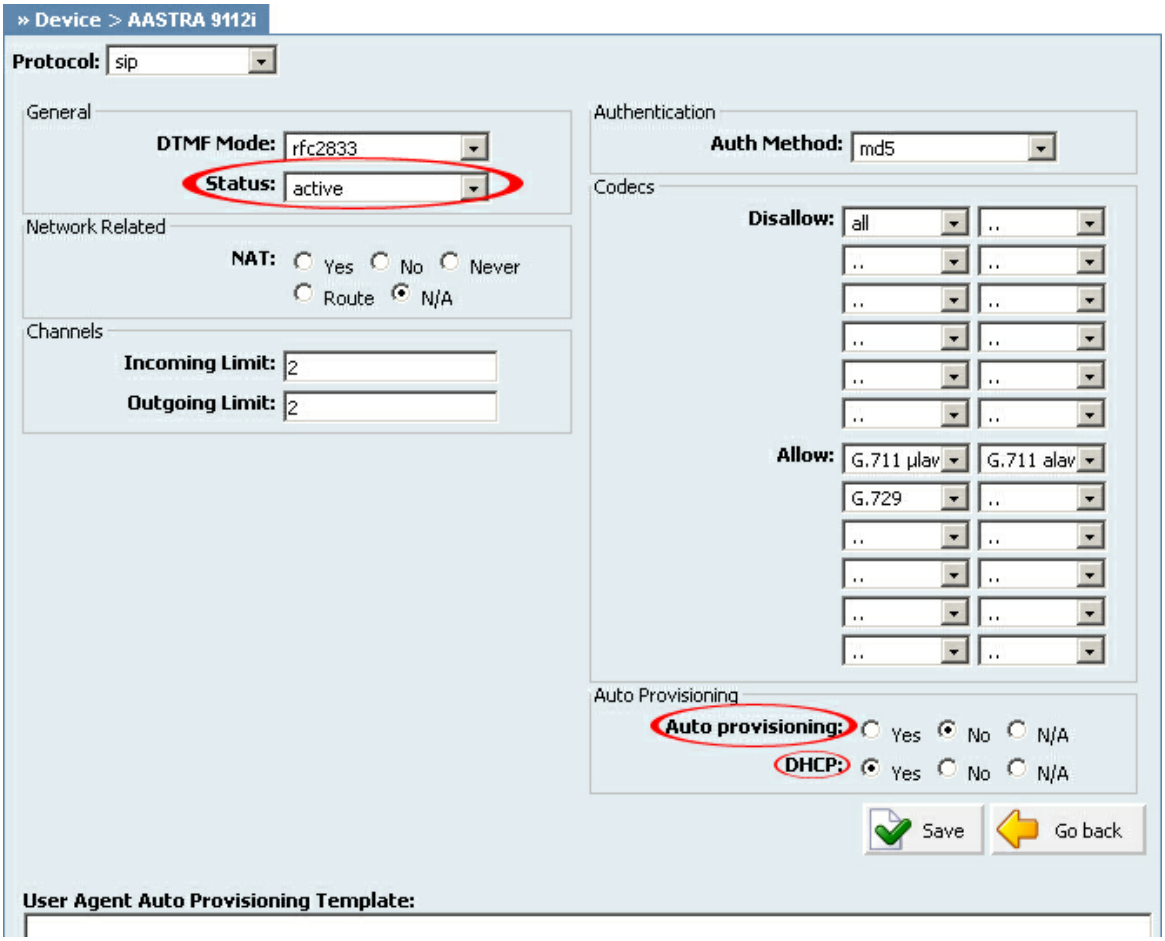
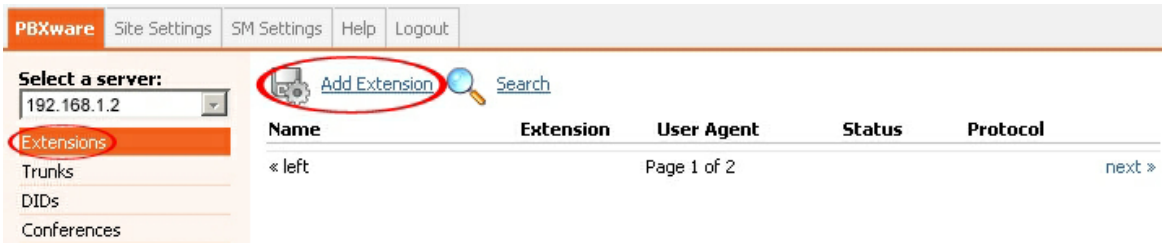


3. Click on the "Save" button to save changes.

2.2.2 Creating Extension

STEP ONE: Add Extension.

1. Navigate to "Extensions". Click on "Add Extension".



2. The standard options window will be shown below.

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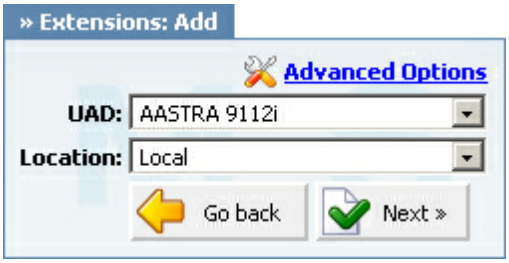
3. Select Aastra 9112i from "UAD" select box.

4. Select Location: "Local" or "Remote".

Note:

-"Local" is for all extensions registered on LAN.

-"Remote" is for all extensions registered from remote networks, WAN, Internet etc.



5. Click on the "Next" button.

STEP TWO: Extension values.

1. Enter values into required field text boxes.

REQUIRED FIELDS:

Name:
Enter a name for the extension being created. **Example:** John Smith.

E-mail:
Enter the e-mail address associated with this extension. This e-mail address will receive all system notification messages. **Example:** john@domain.com.

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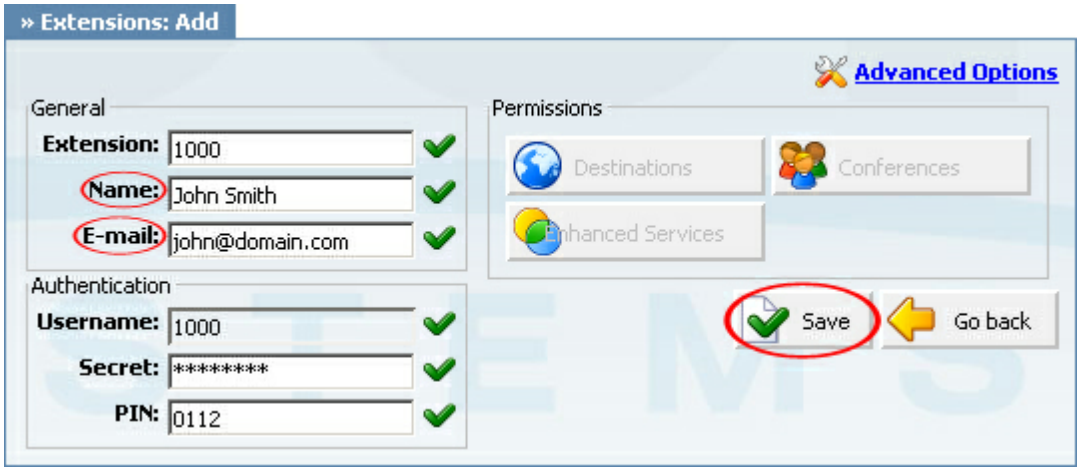

an example with details filled in

2. Click on the "Save" button.

an example with details filled in

3. Click on the "Save & E-mail" button. Account details will be sent to the e-mail address associated with this extension.

OPTIONAL FIELDS:

Extension:
An auto-generated extension number based on the next available sequential number. An extension value can be changed. **Example:** 1000.

Username:
Username is auto generated/populated and cannot be changed since it allows the system to use this value for other important operations.

Secret:
A secret value associated with the UAD is auto-generated in order to allow the UAD to successfully register with the system. The secret value can be changed.

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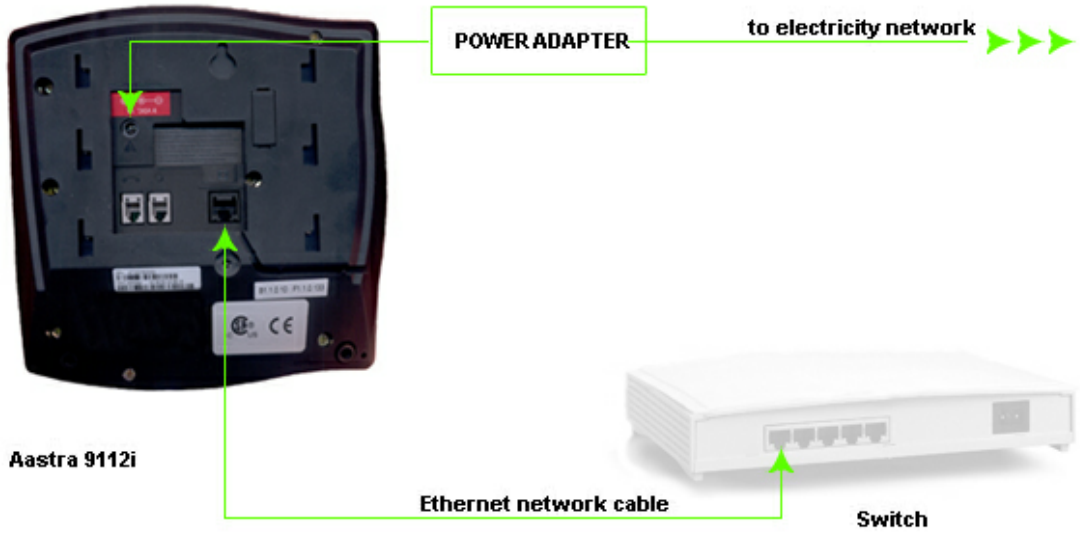
PIN:
An auto-generated PIN will allow access to voicemail and online self care.

2.2.3 Registering Phone

STEP ONE: Electricity and Ethernet.

- Plug the power adapter into a power jack, then connect it to the electricity network.

- Connect the ethernet port to a hub, router or switch as to access LAN.



After successfully connecting the Aastra 9112i to the electricity and data networks it is time to register it to PBXware.

STEP TWO: Aastra 9112i IP address.

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Find out the IP address of Aastra 9112i connected to network.

1. Press the "Options" button.

2. Use the "Navigation" button to navigate down to "Network Settings".

3. Press the "Enter" button.

4. Enter password. Default factory password is "22222".

5. Press the "Enter" button.

6. Use the "Navigation" button to navigate down to "IP Address".

7. Press the "Enter" button.

STEP TWO: Aastra 9112i Web Interface.

1. Open a new browser window and enter the IP address in order to access Aastra 9112i administration interface.

Example: http://192.168.1.101/

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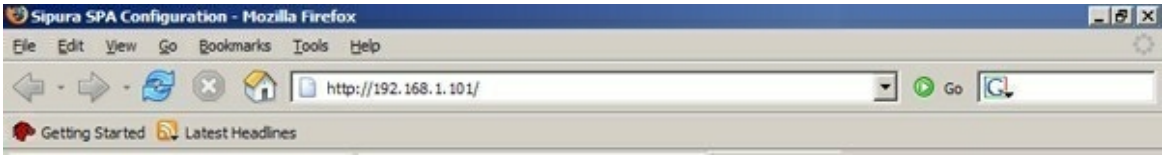
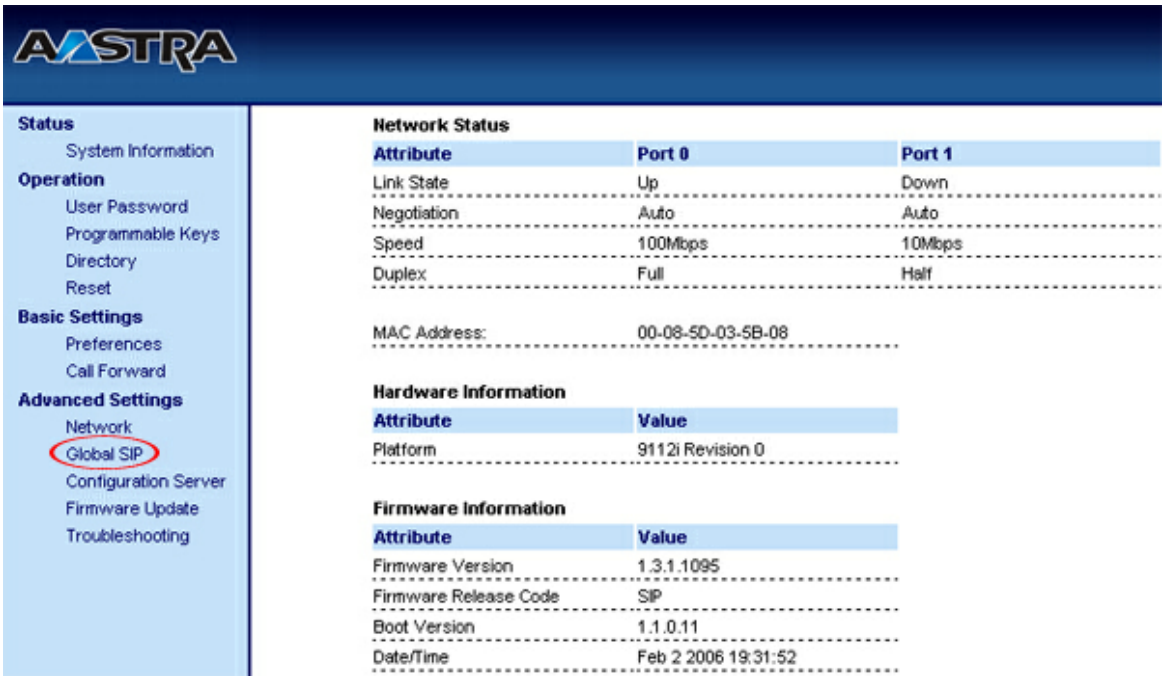


an example with IP address

2. Hit "Enter" on your keyboard.

STEP THREE: Configuring Aastra 9112i.

1. Click on "Line 1" link.



2. Enter the following details into the respective fields.
   REQUIRED FIELDS:

   Phone Number
   PBXware extension number. **Example:** 1000

   Proxy Server
   IP address of PBXware server. **Example:** 192.168.1.2

   Proxy Port
   5060

   Registrar Server
   IP address of PBXware server. **Example:** 192.168.1.2

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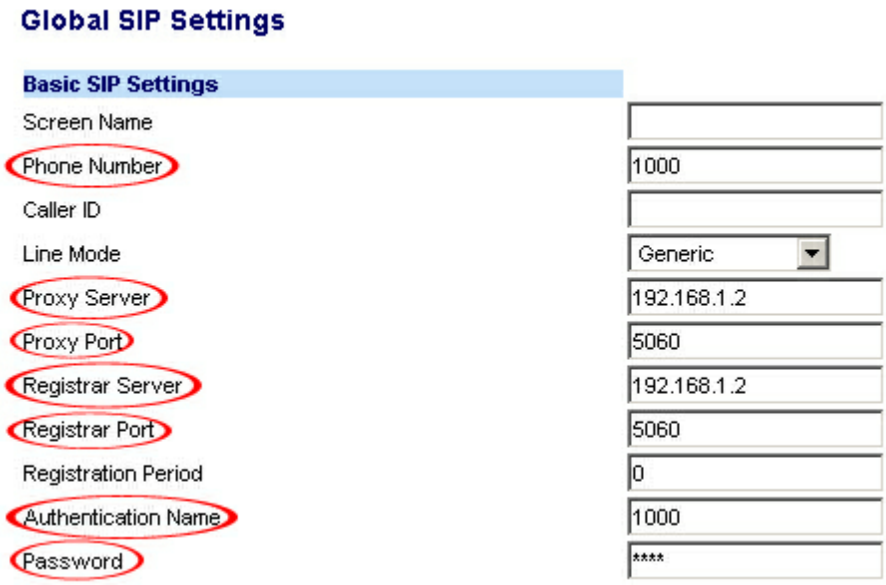
Registrat Port
5060

Authentication Name
Usually the same number as for "Phone Number".

Password
The Secret of the extension as received in the e-mail associated with this extension.
Example: 3dX3r5



an example with details filled in

OPTIONAL FIELDS:

Screen Name
Example: John Smith

Caller ID
Example: John Smith

Other fields
Other "options" or "fields" should be left blank or as is by default, they have no importance for registering the Aastra 9112i to PBXware.

3. Click on the "Save Settings" button.

4. Click on the "Reset" link.

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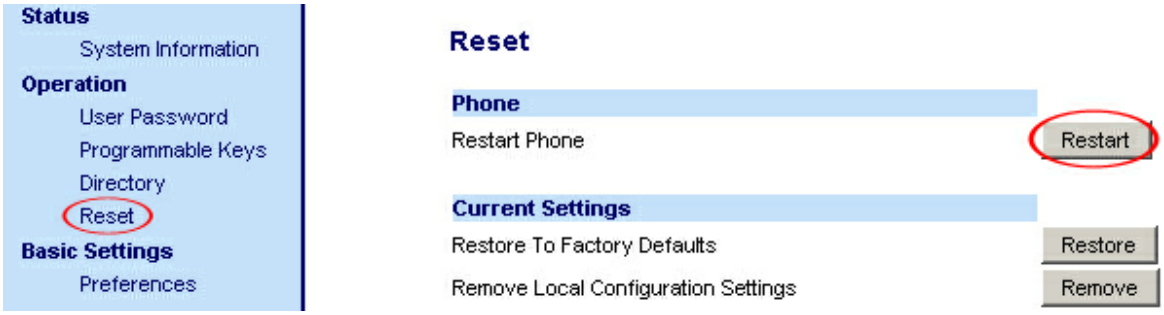


5. Click on the "Restart" button to restart Aastra 9112i so that the changes take effect.

- Conclusion: If everything is done as above described you should have successfully registered your Aastra 9112i to PBXware. Dial *123 to verify registration.

- For further information please contact the manufacturer or check their web site www.aastra.com.

2.3 Auto Provisioning

- UAD Settings
- Creating Extension
- Registering Phone

2.3.1 UAD Settings

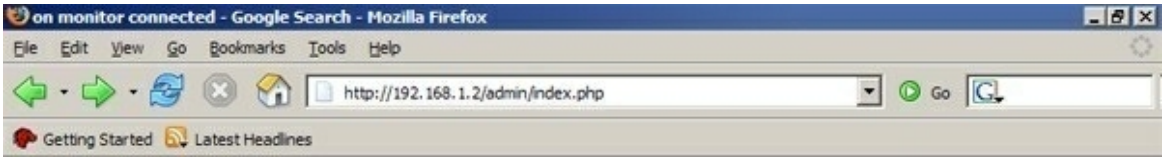
STEP ONE: PBXware IP address.

1. Find out the IP address of PBXware server.

STEP TWO: Login into PBXware.

1. Open a new browser window and enter the IP address followed by "/admin/index.php" in order to access the PBXware administration interface login screen.

Example: http://192.168.1.2/admin/index.php



an example with IP address following by "/admin/index.php"

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3. Login into PBXware with your e-mail address and password.

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STEP THREE: UAD status.

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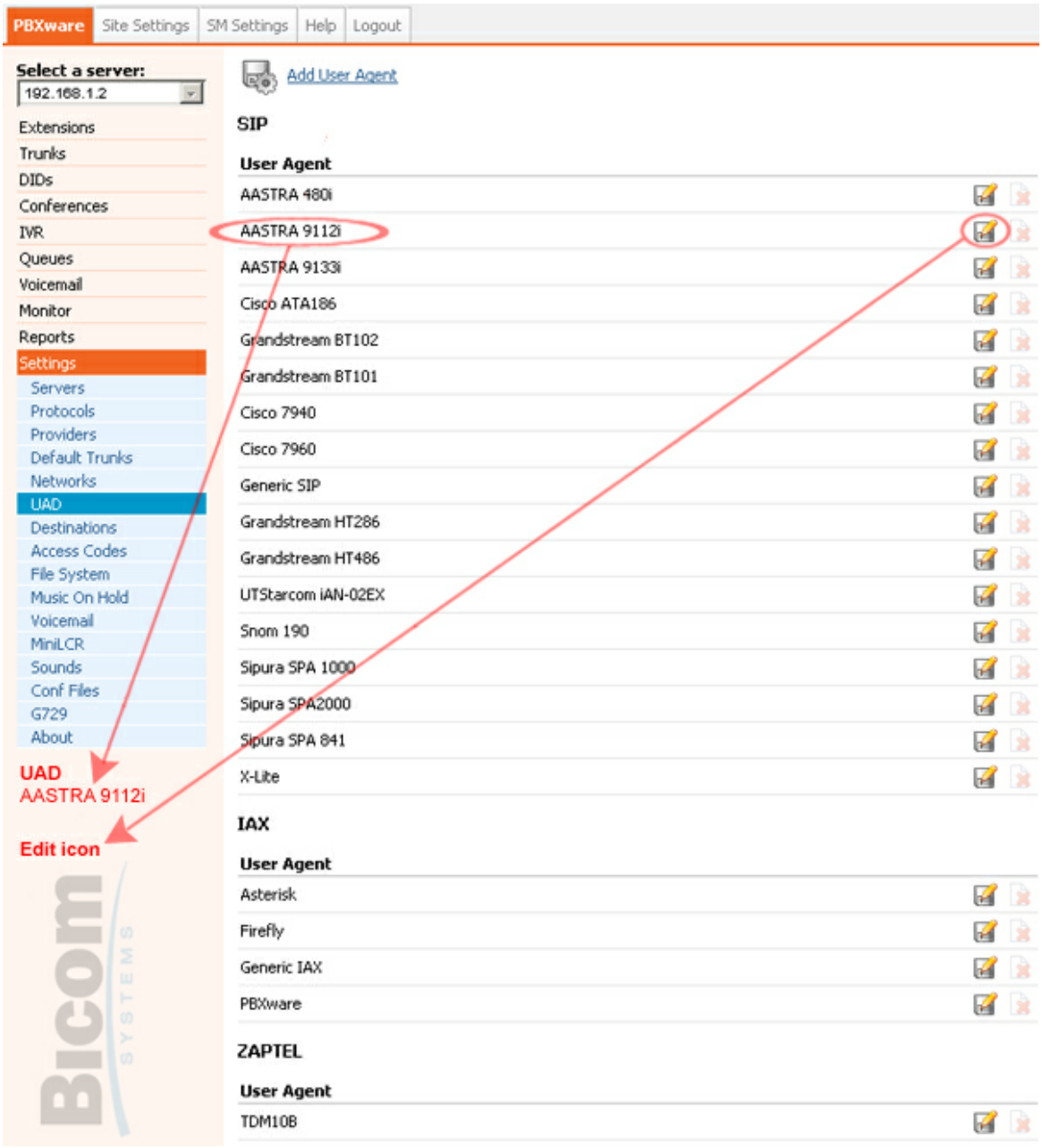

2. Make sure "Status" is set to "active", "Auto provisioning" is set to "Yes" and "DHCP" is set to "Yes".

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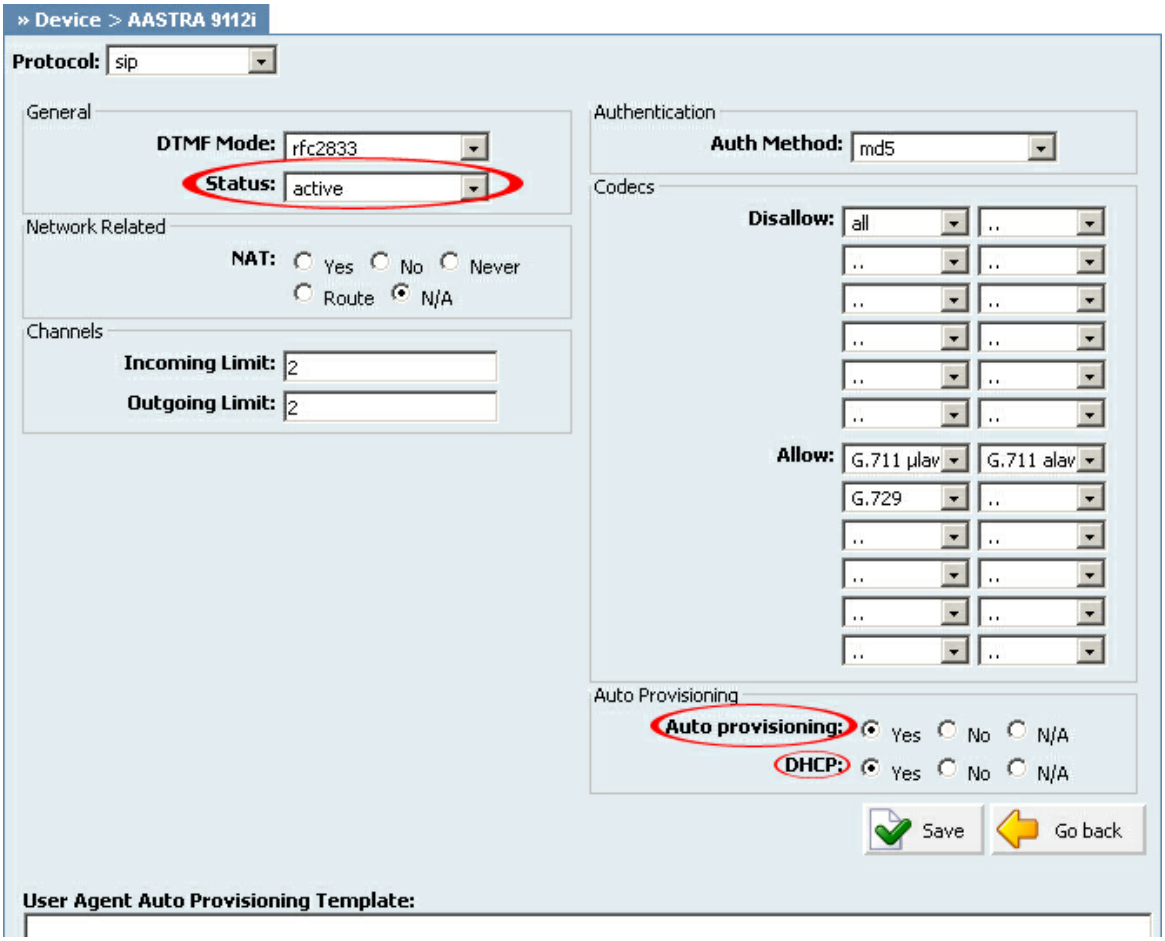
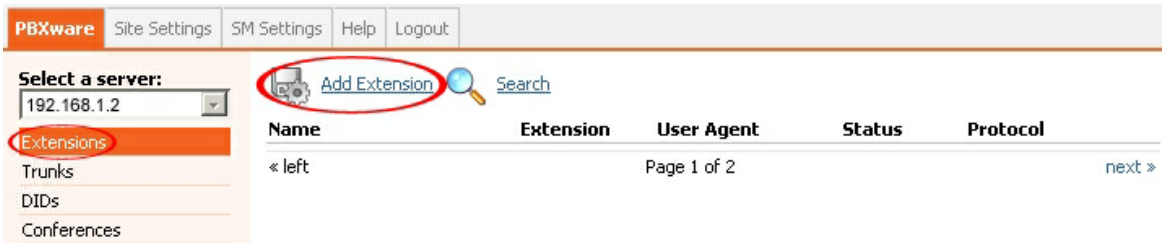


3. Click on the "Save" button to save changes.

2.3.2 Creating Extension

STEP ONE: Add Extension.

1. Navigate to "Extensions". Click on "Add Extension".



2. The standard options window will be shown below.

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3. Select Aastra 9112i from "UAD" select box.

4. Select Location: "Local" or "Remote".

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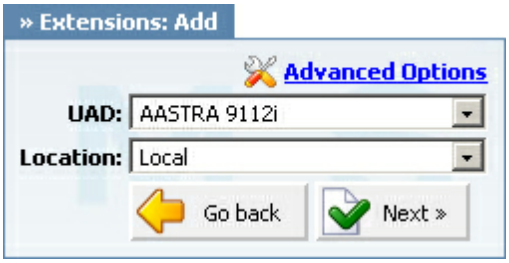

5. Click on the "Next" button.

STEP TWO: Extension values.

1. Enter values into the required field text boxes.

REQUIRED FIELDS:

Name:
Enter a name for the extension being created. **Example:** John Smith.

E-mail:
Enter the e-mail address associated with this extension. This e-mail address will receive all system notification messages. **Example:** john@domain.com

Auto provisioning:
Set to "Yes".

MAC Address:
Aastra 9112i MAC address. **Example:** 001646f5f797

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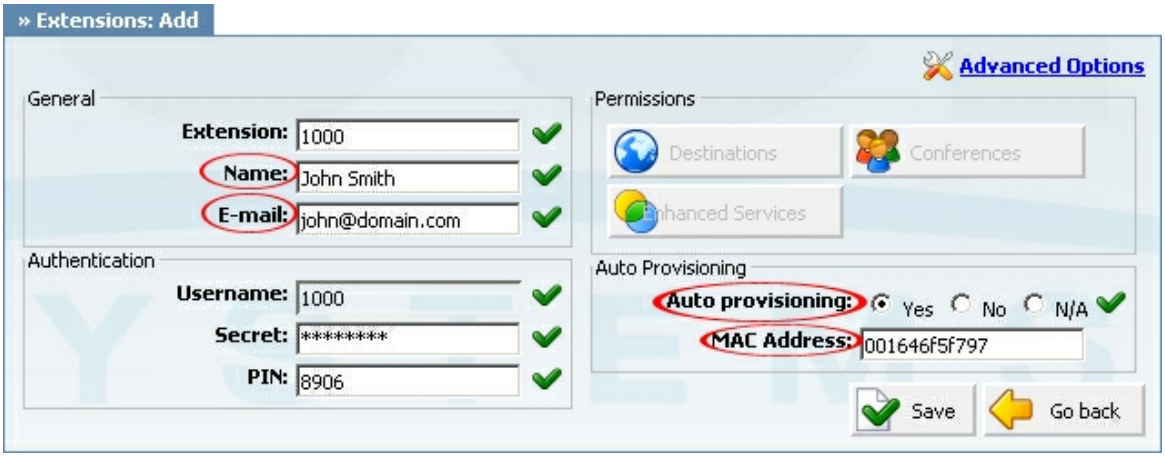
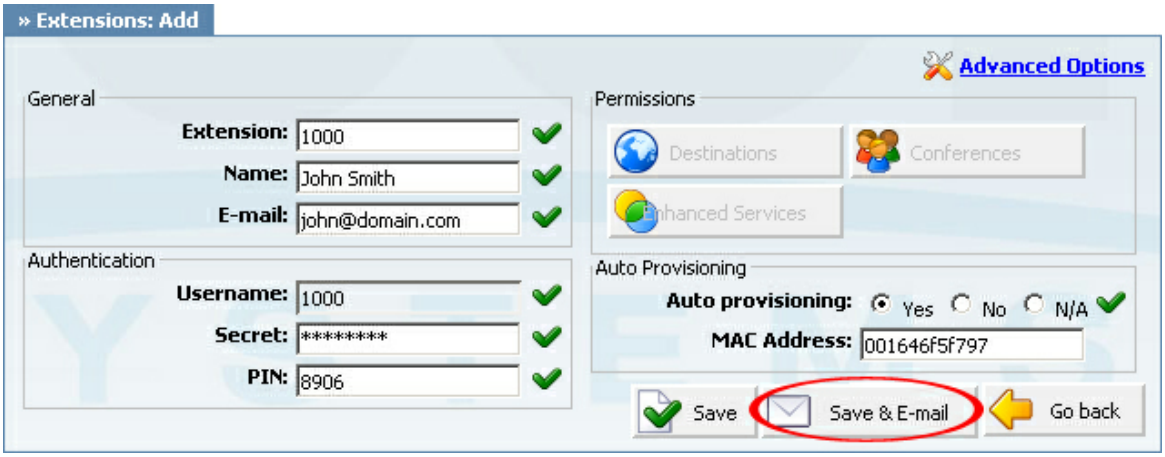


an example with details filled in

2. Click on the "Save" button.



an example with details filled in

3. Click on the "Save & E-mail" button. Account details will be sent to the e-mail address associated with this extension.

OPTIONAL FIELDS:

Extension:
An auto-generated extension number based on the next available sequential number. An extension value can be changed. **Example:** 1000.

Username:
Username is auto generated/populated and cannot be changed since it allows the system to use this value for other important operations.

Secret:
A secret value associated with the UAD is auto-generated in order to allow the UAD to successfully register with the system. The secret value can be changed.

PIN:
An auto-generated PIN will allow access to voicemail and online self care.

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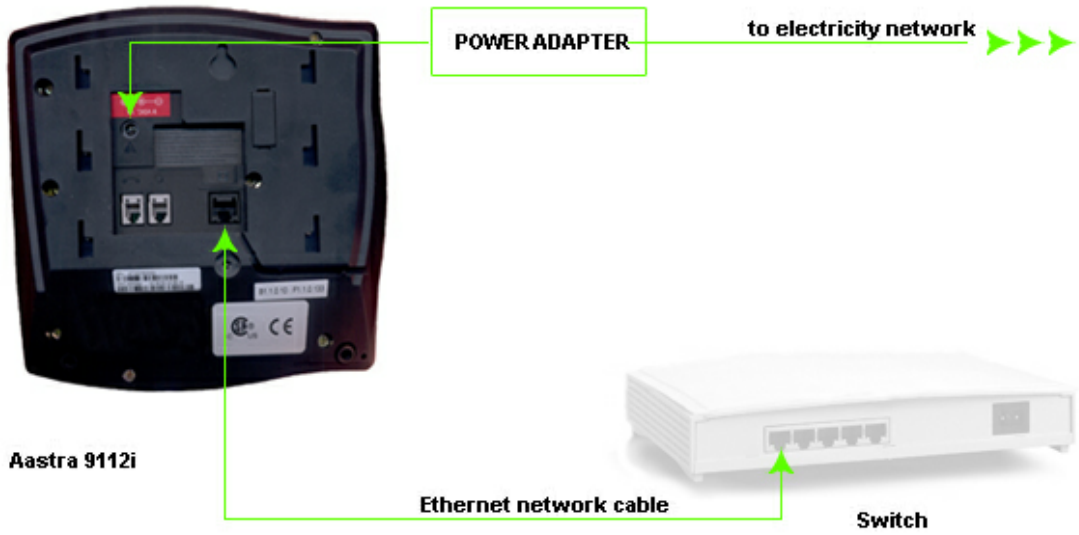
2.3.3 Registering Phone

STEP ONE: Electricity and Ethernet.

- Plug the power adapter into a power jack then connect it to the electricity network.

- Connect the ethernet port to a hub, router or switch as to access LAN.



After successfully connecting your Aastra 9112i to the electricity and data networks, it is time to register it to PBXware.

"TFTP Server" must be set with TFTP server value.

STEP TWO: Aastra 9112i IP address.

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Find out IP address of Aastra 9112i connected to network.

1. Press the "Options" button.

2. Use the "Navigation" button to navigate down to "Network Settings".

3. Press the "Enter" button.

4. Enter password. Default factory password is "22222".

5. Press the "Enter" button.

6. Use the "Navigation" button to navigate down to "IP Address".

7. Press the "Enter" button.

STEP THREE: Aastra 9112i Web Interface.

1. Open a new browser window and enter the IP address in order to access Aastra 9112i administration interface.

Example: http://192.168.1.101/

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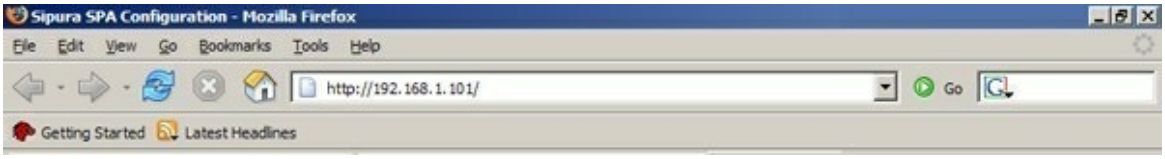
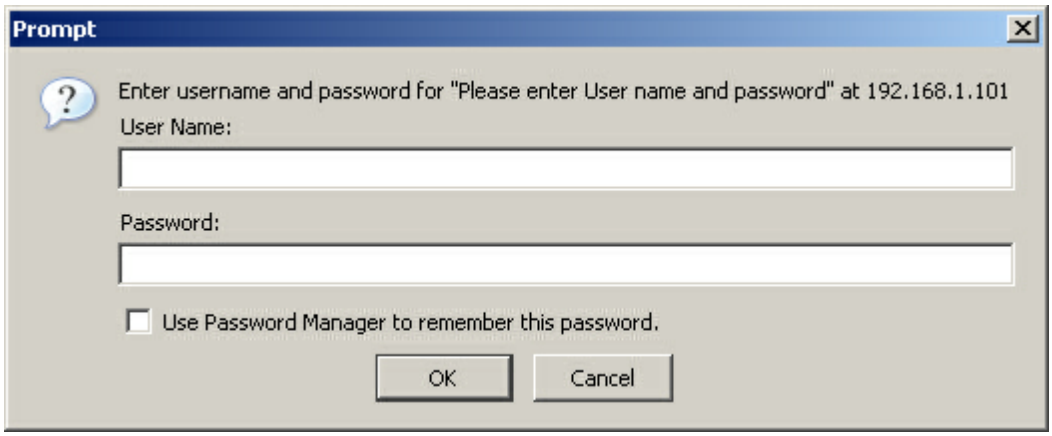


an example with IP address

2. Hit "Enter" on your keyboard.

STEP FOUR: Configuring TFTP server.

1. Login to the Aastra 9112i Web Interface. You'll be prompted to enter a username and password. The factory default username is lower case "admin" and password is "22222".



2. Click on the "Configuration Server" link.

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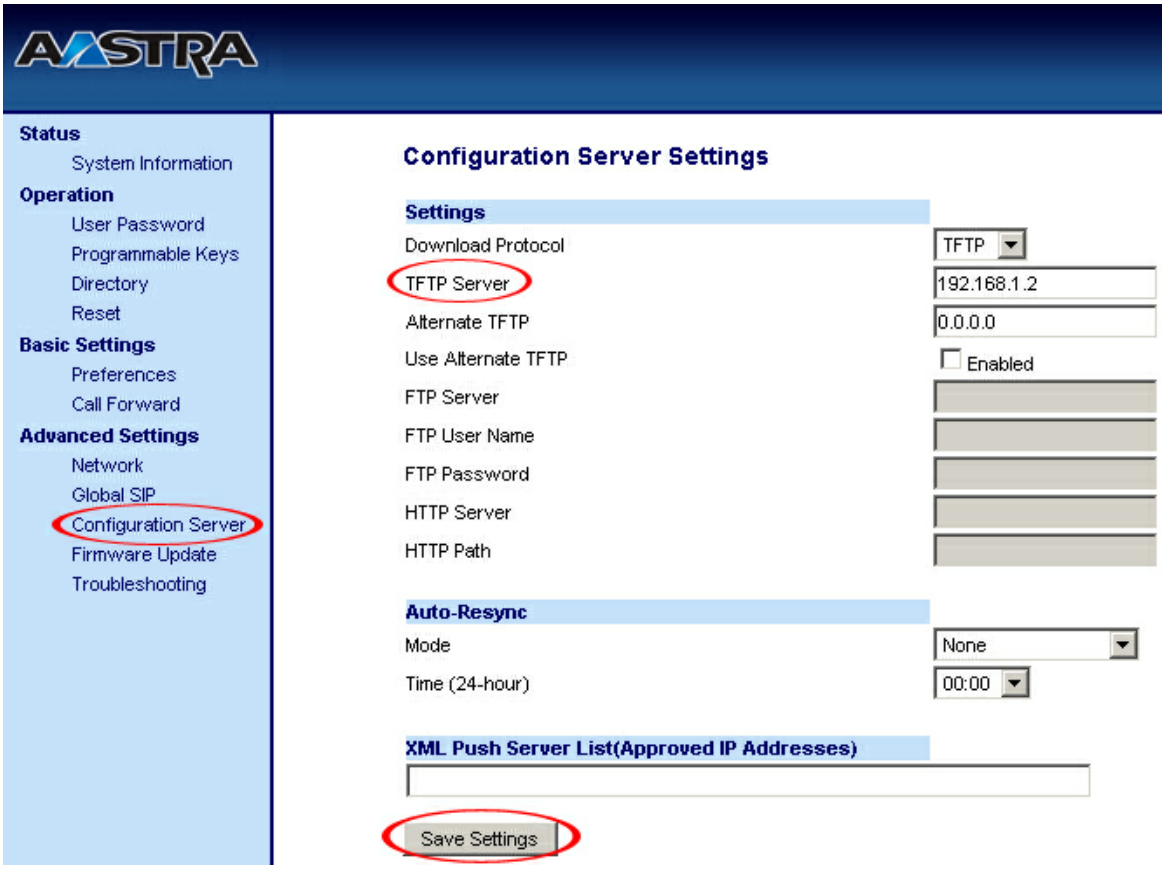
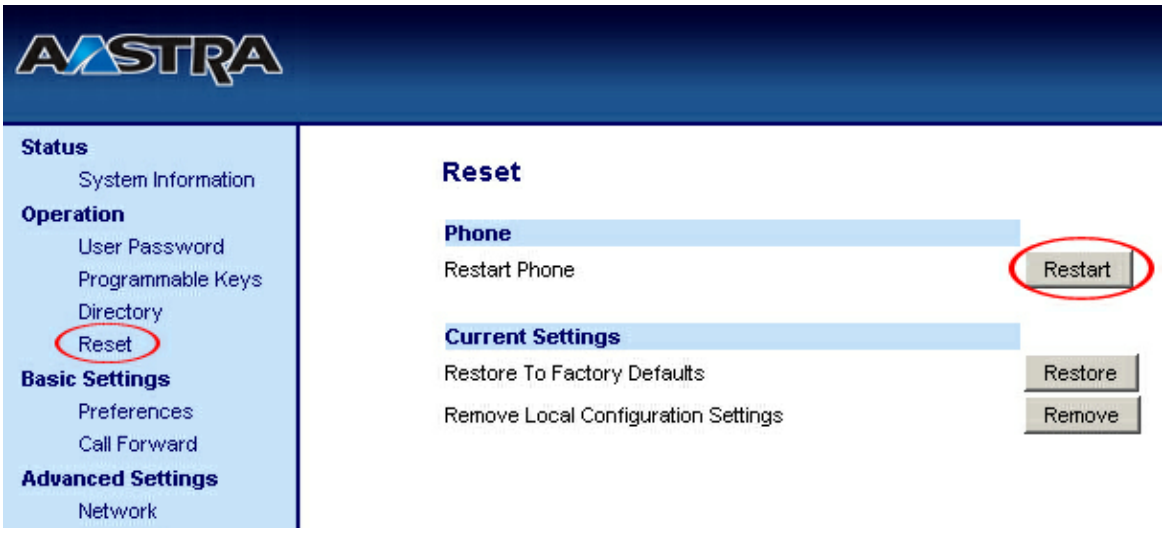


an example with details filed in

3. "TFTP Server" must be set with TFTP server value. **Example:** 192.168.1.2

4. Click on the "Save Settings" button.

5. Click on the "Reset" link.



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6. Click on the "Restart" button to restart Aastra 9112i so the changes take effect.

2.4 Auto Configuration

- Requirements
- Auto Configuration

2.4.1 Requriements

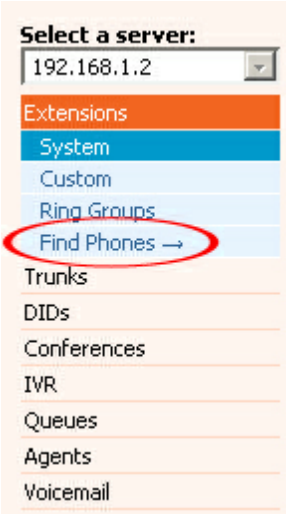
1. Make sure your devices are properly connected to the same LAN as your PBXware.

2. Make sure that all devices are set to Factory Defaults.

3. Make sure that all devices are using port 5060.

2.4.2 Auto Configuration

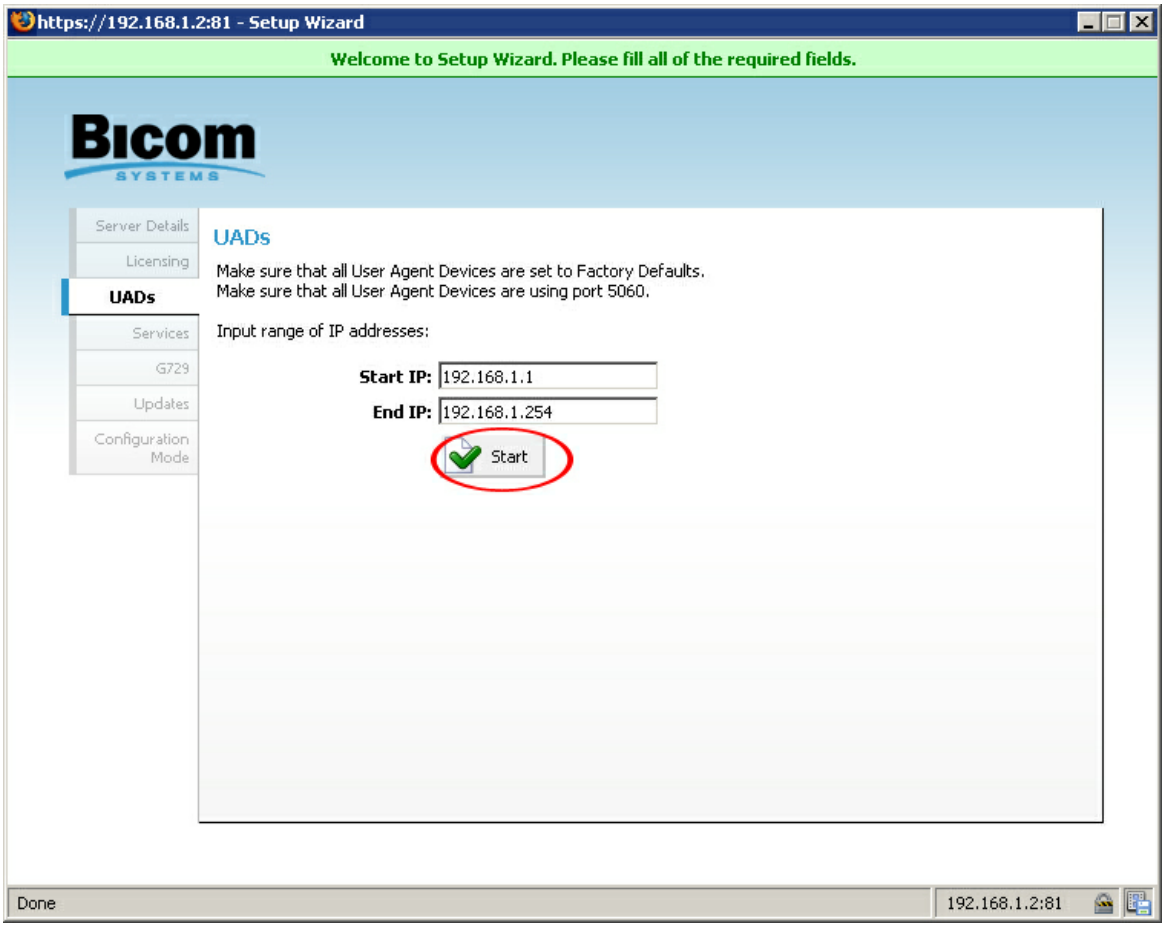
1. Navigate to "Extensions: Find Phones".



2. A pop up window will appear. Input range of IP addresses

Example:
- Start IP: 192.168.1.2
- End IP: 192.168.1.254

3. Click on the "Start" button. The PBXware will search for devices connected to the same LAN in selected range of IP addresses.



an example with range of IP addresses

4. After the PBXware has finished searching for devices, a list of all devices found will be shown.

5. Change the activation status from "Not Activated" to "Auto Configuration" for one or more displayed devices of your choice.

6. Click on the "edit" button next to the activation select box to enter properties for selected device.

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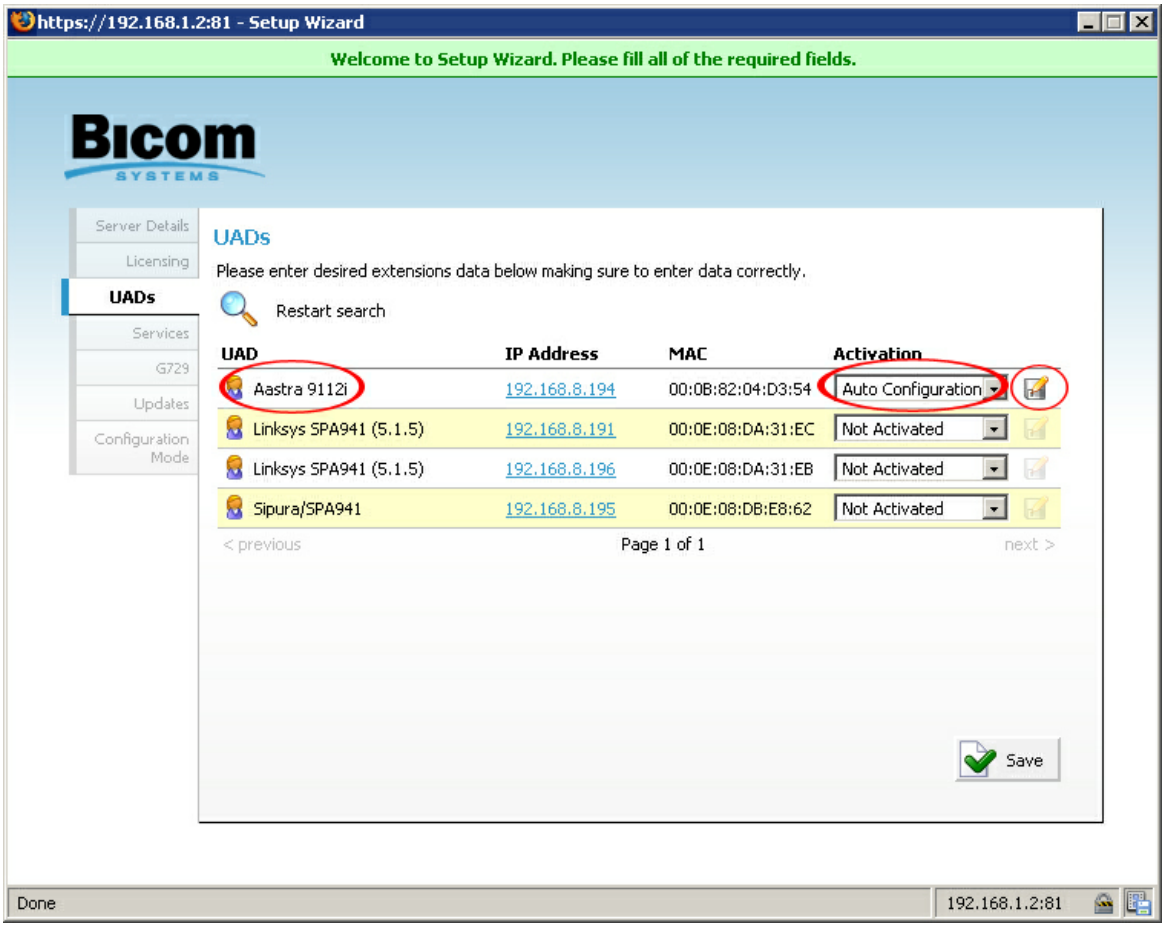

an example with list of found devices

7. After you have edited a device, a pop up window will appear.

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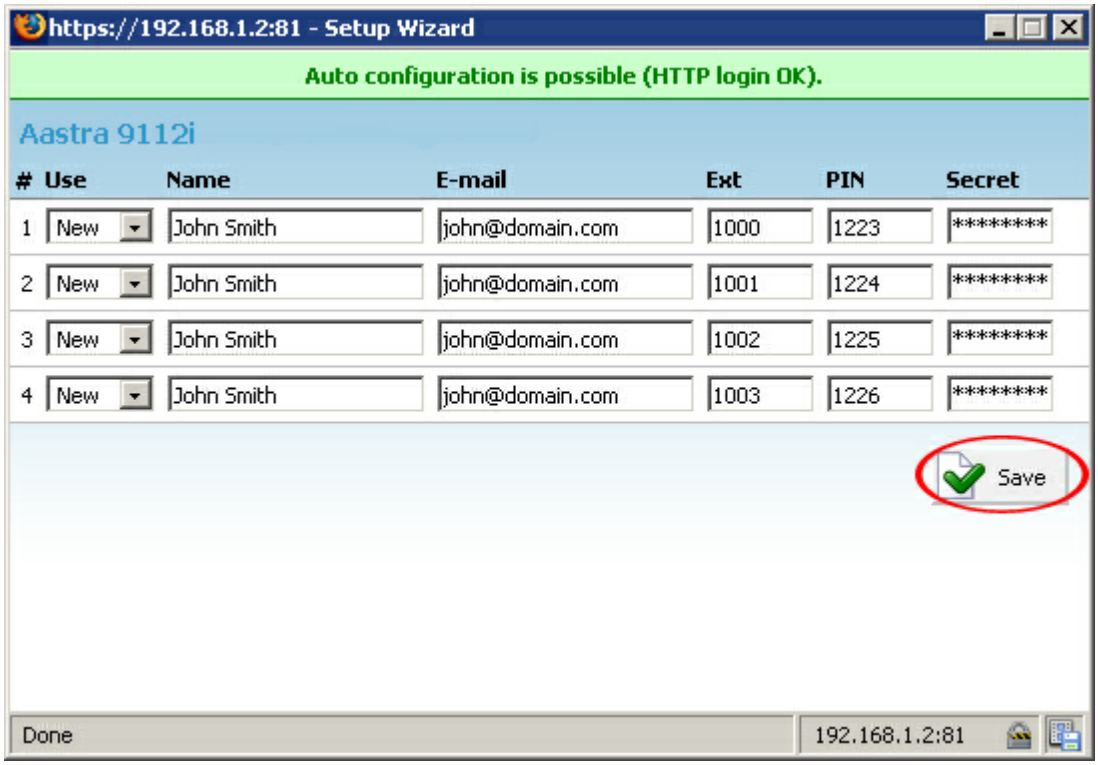
https://192.168.1.2:81 - Setup Wizard
Auto configuration is possible (HTTP login OK).
Aastra 9112i
Use Name E-mail Ext PIN Secret
1 New John Smith john@domain.com 1000 1223 ********
2 New John Smith john@domain.com 1001 1224 ********
3 New John Smith john@domain.com 1002 1225 ********
4 New John Smith john@domain.com 1003 1226 ********
Save
Done
192.168.1.2:81

an example with 4 configured lines

8. Aastra 9112i has 4 lines available, you can configure just one or all of them as shown above.

Line 1 example

Name: John Smith
E-mail: john@domain.com
Ext: 1000
PIN: 1223

Secret: Enter an at least 6 digit or letter long secret.

9. Click on the "Save" button, the entered values will be saved and the pop up window will disappear.

10. Click on the "Save" button shown below to finalize "Auto Configuration".

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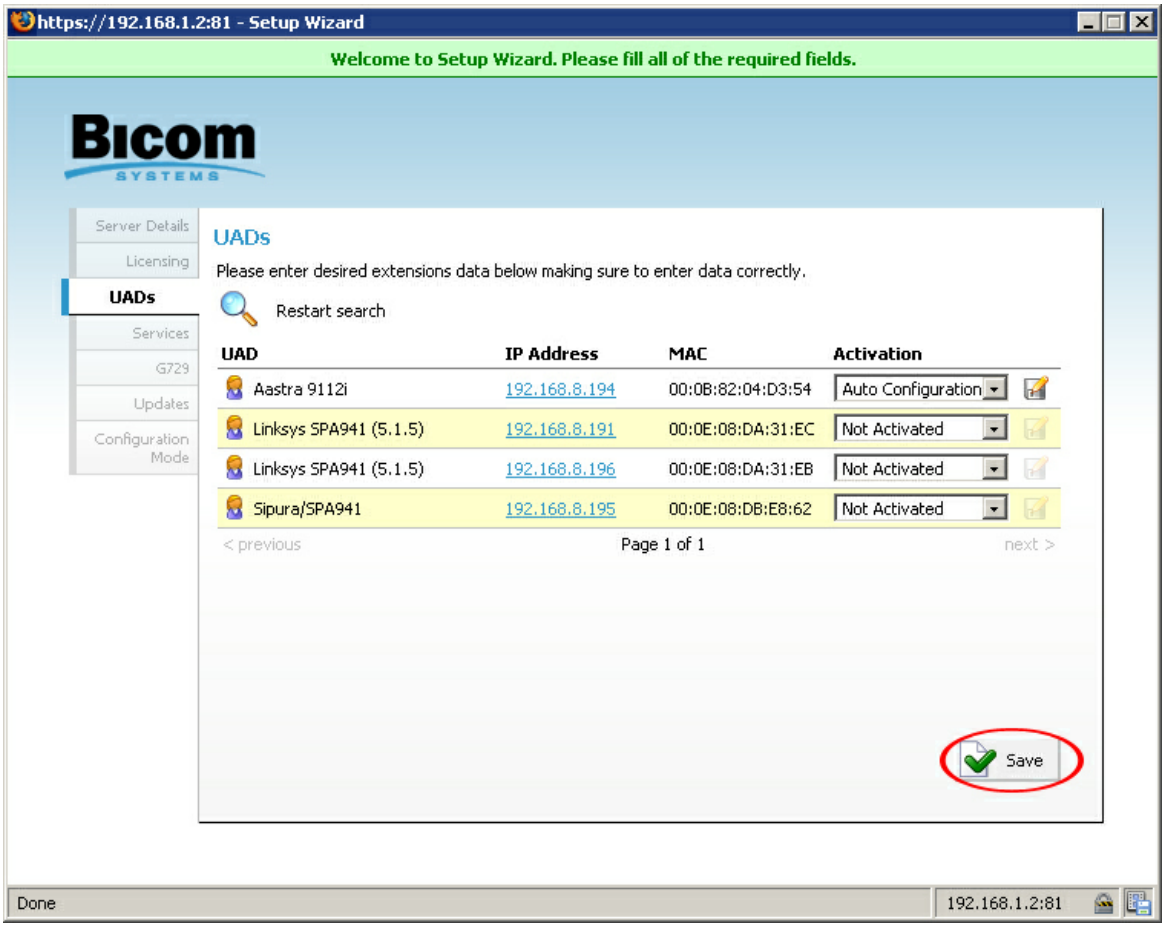

11. Device(s) will automatically reboot and be auto configured.

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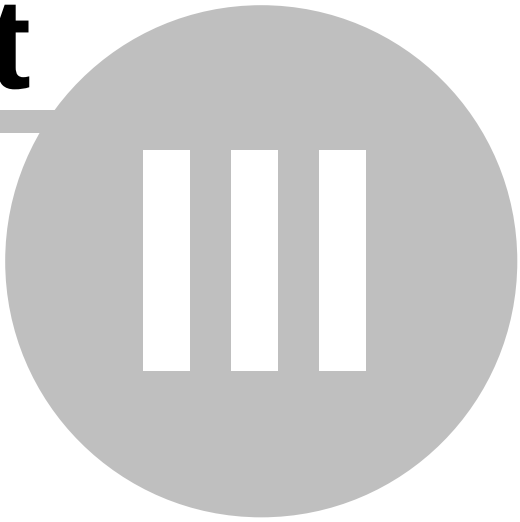
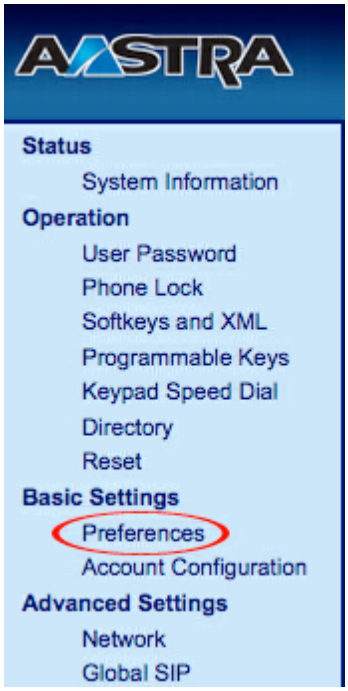
Part



3 Paging

1. Navigate your Internet browser to the phone's IP address (for example http://192.168.1.1).

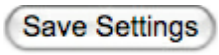
2. Select "Preferences" under the "Basic Settings" tab.



3. Make sure that

Auto-Answer box is checked.
Microphone Mute box is not checked.

4. Navigate to the bottom of the page and click on the "Save Settings" button.



5. Reboot the phone to apply the new settings.

NOTE: At the time, paging option is set for all lines and works once the handset is picked up. Paging tested with Firmware version 1.3.1.1095.

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Part IV

4 Glossary

- **DHCP** = Dynamic Host Configuration Protocol (DHCP) is a communications protocol that lets network administrators manage and automate the assignment of Internet.
- **HUB** = A common connection point for devices in a network.
- **IP Address** = Internet Protocol address.
- **Local** = A local area network (LAN) is a computer network covering a local area, like a home, office or small group of buildings such as a college.
- **LAN** = Local Area Network.
- **PIN** = Personal Identification Number.
- **Remote** = Network devices that are managed or controlled from a network system other than the system to which they are directly connected.
- **Router** = A device that forwards data packets from one local area network (LAN) or wide area network (WAN) to another.
- **Switch** = Network device that selects a path or circuit for sending a unit of data to its next destination.
- **TFTP** = Trivial File Transfer Protocol. A very simple form of the File Transfer Protocol. TFTP provides no security features.
- **UAD** = User Agent Device.
- **VoiceMail** = The electronic transmission of voice messages over the Internet. The messages are stored on a computer until the recipient accesses and listens to them.
- **WAN** = Wide Area Network.
- **Web Interface** = A web interface is the system of controls with which the user controls a device.

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